

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A thermoplastic composite sheet comprising:
a center layer prepared by melt-extruding a thermoplastic composite material containing thermoplastic resin; and
a continuous reinforcing fiber-impregnated prepreg layer laminated on at least one whole surface of an upper surface and lower surface of the center layer, the prepreg layer comprising 5-65% by weight of reinforcing fibers and 35-95% by weight of thermoplastic resin;
wherein the continuous reinforcing fiber-impregnated prepreg layer comprises a plurality of tapes or strands that have been aligned to form welts and warps, and
wherein each of the plurality of tapes or strands have been impregnated with a thermoplastic resin prior to being aligned; is formed by drawing and pressing fibers passed through an impregnation die supplied with a thermoplastic resin melt in a tape or strand shape, and aligning the fibers in a form of welts and warps; and
the center layer of thermoplastic composite material is a foaming layer or a glass fiber-reinforced thermoplastic resin layer.

2. (Original) The thermoplastic composite sheet of Claim 1, wherein the center layer comprises 5-50% by weight of reinforcing fibers with an average length of 1-30 mm.
3. (Original) The thermoplastic composite sheet of Claim 1, wherein the center layer comprises 15-30% by weight of inorganic filler.

4. (Original) The thermoplastic composite sheet of Claim 1, wherein the center layer comprises at least one of 20-40% by weight of wood flour and chaff.
5. (Original) The thermoplastic composite sheet of Claim 1, which further comprises a protective layer melted and adhered on the continuous reinforcing fiber-impregnated prepreg layer, the protective layer comprising 0-54% by weight of reinforcing fiber and 46-100% by weight of thermoplastic resin.
6. (Canceled)
7. (Previously Presented) The thermoplastic composite sheet of Claim 1, wherein the thermoplastic resin is selected from the group consisting of polypropylene, polyethylene, polyamide, polyester, polyphenylene sulfide resins, and a mixture thereof.
8. (Currently Amended) The thermoplastic composite sheet of Claim 2, wherein the reinforcing fibers in the prepreg layer or the center layer are selected from the group consisting of glass fibers, aramid fibers, natural fibers, polyester fibers, polyamide fibers, and a mixture thereof.
9. (Original) The thermoplastic composite sheet of Claim 3, wherein the inorganic filler is selected from the group consisting of calcium carbonate, hollow beads, talc, mica, wollastonite, zinc sulfide, activated carbon, and a mixture thereof.

10. (Previously Presented) The thermoplastic composite sheet of Claim 1, wherein the continuous reinforcing fiber-impregnated prepreg layer has a bi-directional structure.

11-26. (Canceled)

27. (Withdrawn- Currently Amended) An article manufactured by heat-melting the a thermoplastic composite sheet of manufactured according to Claim 1 and then press-molding the heated material in a mold at a lower temperature than the melting point thereof.

28-33. (Canceled)

34. (Withdrawn) The article of Claim 27, wherein the thermoplastic composite sheet is molded in combination with a glass mat thermoplastic sheet into the desired shape in a molding machine.

35. (Withdrawn) The article of Claim 21, which is a building panel.

36. (Withdrawn) The article of Claim 27, which is a building panel.

37. (Withdrawn -- Currently Amended) The article of Claim 34, Claim 28, which is a building panel.

38. (Withdrawn) The article of Claim 22, which is an automobile bumper back beam.

39. (Withdrawn -- Currently Amended) The article of Claim 27, Claim 29, which is an automobile bumper back beam.